

**Maqsood Ahmed**  
**Assistant Professor**  
**Centre for High Energy Physics**  
**University of the Punjab**  
**Lahore-PAKISTAN**



**M. Sc. Physics** (1985)

**Ph. D. High Energy Physics** (2009)

**Highlights:**

- Assistant Professor at Centre for High Energy Physics since 2001.
- Adjunct visiting research scientist from July 15, 2002 to 31 August, 2003 in Department of Physics, State University of New York, Albany USA.
- Established 64 CPU Beowulf style high performance computation laboratory at Centre for High Energy Physics to study its applications in High Energy Physics, Material Sciences, Bioinformatics, Medical Sciences, Modeling and Simulation etc.
- Developed a 54 nodes Beowulf Cluster at High Energy Physics Lab, State University of New York, Albany, NY, USA. This system is being used for Monte Carlo Simulation of BaBar experiments, one of the most sophisticated experiments carrying on research in experimental high energy physics at Stanford Linear Accelerator Center, Stanford University, USA.
- Life member Pakistan Institute of Physics.
- Member Pakistan Vacuum Society

**Contribution in Developmental Projects:**

- Strengthening of newly initiated Academic programs Rs.9.90626 million sponsored by Higher Education Commission, Pakistan (HEC).
- Provision of Laboratory Equipment Rs.3.0 million sponsored by HEC
- Establishment of School of Physical Sciences Rs. 200.0 million jointly sponsored by HEC & Ministry of Education, Govt of Punjab.
- Strengthening and Up-gradation of departments at PU Rs.36.078 million sponsored by HEC

**Teaching/Research Activities:**

Presently teaching Basic and Advance level courses regarding computational physics, simulation and modeling, object oriented programming, parallel programming, at undergraduate, graduate and PhD level.

**Thesis/project completed:**

|        |                 |
|--------|-----------------|
| MSc/BS | 20              |
| MPhil  | 9               |
| PhD    | 3 (in progress) |

**Research Interest:**

- Parallel Processing/High Performance Computation.
- Particle physics data analysis.
- Medical Physics.
- Material Physics.

**Participation/Contribution in Seminars/Work-shops/Conferences**

- 7<sup>th</sup> International Meeting on Particles and Fields, organized by Centre for High Energy Physics, University of the Punjab, Lahore from **1-4 April 2015**.
- Workshop on Industrial Vacuum Applications held at Centre for High Energy Physics, University of the Punjab, Lahore **28-30 January, 2014**
- 5<sup>th</sup> International Meeting on Particles and Fields, organized by Centre for High Energy Physics, University of the Punjab, Lahore from **25-28 March, 2013**.
- One day Training workshop on Field Programmable gate Array (FPGA), Reconfigurable Application-Specific Computing (RASC) held on **12 July, 2006** at University at Albany, State University of New York, USA
- International Meeting on Frontiers of Physics, **25-29 July 2005**, Kuala Lumpur, Malaysia
- Workshop on *European Data Grid/LHC Computing Grid User Tutorial*, organized by National Centre for Physics, Islamabad and European Organization for Nuclear Research, CERN. Switzerland **October 21-23, 2003**
- One day hand on Training workshop on Graphical *Programming “LabView”*, organized by National Instruments at **SUNY Albany, NY, USA. July 17, 2003**
- Scalar Meson Workshop, Organized by SUNY Institute of Technology, NY, USA. **May 16-18, 2003**
- Workshop on “PC Hardware Maintenance” organized by National Academy of Higher Education, UGC, Islamabad. **September 27 to October 3, 1993**
- *International Training/Workshop on Database Management at IARI New Delhi, India. April 6-17, 1992*

**Research Publications:****112****I. F. >400**